

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

February 27, 2024

Ryan J. Curley, P.E.
Souder, Miller & Associates
5454 Venice Ave NE, Suite D
Albuquerque, NM 87113

RE: Venice Volleyball Courts
Conceptual Grading & Drainage Plans
Engineer's Stamp Date: 02/05/24
Hydrology File: B18D022

Dear Mr. Curley:

Based upon the information provided in your submittal received 02/06/2024, the Grading & Drainage Plans are approved for Building Permit, Grading Permit, and Work Order. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

PO Box 1293

PRIOR TO CERTIFICATE OF OCCUPANCY:

Albuquerque

NM 87103

www.cabq.gov

1. Engineer's Certification, per the DPM Part 6-14 (F): *Engineer's Certification Checklist For Non-Subdivision* is required.
2. Please provide the executed paper Drainage Covenant (latest revision) printed on one-side only with Exhibit A and a check for **\$25.00** made out to "**Bernalillo County**" for the stormwater quality ponds per Article 6-15(C) of the DPM to Hydrology for review at Plaza de Sol.

As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

Renée C. Brissette, P.E. CFM
Senior Engineer, Hydrology
Planning Department

HYDROLOGIC RESULTS SUMMARY					
BASIN	AREA	100-YR, 24-HR DISCHARGE	100-YR, 24-HR CU-FT	CALCULATED SWQV	PROVIDED SWQV
	ACRES	CFS	CU-FT	CU-FT	CU-FT
SITE HISTORIC (1-5)	1.72	3.22	6,867	N/A	N/A
OFFSITE HISTORIC (6)	0.57	1.05	2,234	N/A	N/A
TOTAL	2.29	4.27	9,102		
ONSITE DEVELOPED BASIN 1	0.12	0.43	842	64	134
ONSITE DEVELOPED BASIN 2	0.37	1.30	2,566	197	401
ONSITE DEVELOPED BASIN 3	0.17	0.60	1,188	90	235
ONSITE DEVELOPED BASIN 4	0.36	1.25	2,475	191	361
ONSITE DEVELOPED BASIN 5	0.70	2.45	4,850	372	474
OFFSITE DEVELOPED BASIN 6	0.57	2.25	5,031		
ONSITE TOTAL	1.72	6.02	11,921	914	1,605
OFFSITE TOTAL	0.57	2.25	5,031	-	-
TOTAL	2.29	8.27	16,952	914	1,605

DRAINAGE BACKGROUND & NARRATIVE: THIS SITE IS ALLOWED FREE DISCHARGE TO VENICE AVE FOR ITS SOUTHERN PORTION AND PASADENA AVE FOR ITS NORTHERN PORTION PER THE SAN MATEO BUSINESS PARK DRAINAGE REPORT (SMBPDR) BY C.L. WEISS ENGINEERING INC. 1999 (B-18-D008). THE EXISTING DRAINAGE PATTERN FOR THE UNDEVELOPED SITE DRAINS EAST TO WEST OFFSITE. THE PROPOSED SITE WILL DRAIN PRIMARILY NORTHEAST TO SOUTHWEST AND FREELY DISCHARGE INTO VENICE AVE VIA A NEW RUNDOWN AND SIDEWALK CULVERT OVERFLOW FROM THE NEW STORMWATER QUALITY POND IN THE SOUTHWEST CORNER. THE PRIMARY METHOD FOR HYDROLOGY CALCULATIONS IN THE DPM IS BASED ON THE ARID-LANDS HYDROLOGIC MODEL (AHYMO) CALCULATIONS. A SIMPLIFIED PROCEDURE FOR PROJECTS WITH BASINS SMALLER THAN 40 ACRES HAS BEEN DEVELOPED BASED ON INITIAL ABSTRACTION/UNIFORM INFILTRATION PRECIPITATION LOSSES AND RATIONAL METHOD PROCEDURES.

BERNALILLO COUNTY WITHIN CITY LIMITS HAS BEEN DIVIDED INTO 4 PRECIPITATION ZONES THAT CAN BE REVIEWED IN SECTION 6-2(A)(1). THE DPM IS BASED ON NATIONAL OCEANIC AND ATMOSPHERIC AGENCY (NOAA) ATLAS 14 PRECIPITATION DATA. FOR THE PROJECT SITE, ZONE 3 HAS BEEN SELECTED FOR LOCATIONS "BETWEEN SAN MATEO AND EUBANK, NORTH OF I-40 AND BETWEEN SAN MATEO AND THE EAST BOUNDARY OF RANGE 4 EAST." AN EXCERPT OF PRECIPITATION DATA FROM TABLE 6.2.8 FOR ZONE 3 FOR THE 100-YEAR STORM EVENT IS INCLUDED BELOW:

PRECIPITATION FOR ZONE 3: 100-YEAR STORM EVENT												
	5	10	12	15	30	60	2	3	6	24	4	10
	MIN	MIN	MIN	MIN	MIN	MIN	HR	HR	HR	HR	DAY	DAY
DEPTH (IN)	0.584	0.889		1.100	1.480	1.840	2.150	2.220	2.430	2.840	3.290	4.100
INTENSITY (IN/HR)	7.01	5.33	4.96	4.40	2.96	1.84	1.08	0.74	0.41	0.12	0.03	0.02
FROM DPM TABLE 6.2.8												

LAND AREAS ARE DESCRIBED BY ONE OF FOUR BASIC LAND TREATMENTS OR BY A COMBINATION OF THE FOUR LAND TREATMENTS. LAND TREATMENTS CAN BE REVIEWED IN TABLE 6.2.9.

LAND TREATMENTS IN PROJECT SITE					
BASIN ID	AREA (ACRES)	LAND TREATMENT A (ACRES)	LAND TREATMENT B (ACRES)	LAND TREATMENT C (ACRES)	LAND TREATMENT D (ACRES)
EXISTING SITE	1.72	1.72			
PROPOSED SITE	1.72			1.12	0.60

INITIAL ABSTRACTION IS THE PRECIPITATION DEPTH THAT MUST BE EXCEEDED BEFORE DIRECT RUNOFF BEGINS. INITIAL ABSTRACTION MAY BE INTERCEPTED BY VEGETATION, RETAINED IN SURFACE DEPRESSIONS, OR ABSORBED ON THE WATERSHED SURFACE.

ABSTRACTION IN PROJECT SITE BY LAND TREATMENT					
BASIN ID	ABSTRACTION FOR TREATMENT A	ABSTRACTION FOR TREATMENT B	ABSTRACTION FOR TREATMENT C	ABSTRACTION FOR TREATMENT D	WEIGHTED INITIAL ABSTRACTION (IN)
SITE	0.65	0.50	0.35	0.10	0.15

FROM TABLE 6.2.11 IN DPM

EXCESS PRECIPITATION, E, IS THE DEPTH OF PRECIPITATION REMAINING AFTER ABSTRACTIONS ARE REMOVED. EXCESS PRECIPITATION DOES NOT DEPEND ON WATERSHED AREA. EXCESS PRECIPITATION IS DETERMINED BY SUBTRACTING THE INITIAL ABSTRACTION AND INFILTRATION FROM THE DESIGN STORM HYDROGRAPH.

EXCESS PRECIPITATION IN PROJECT SITE BY LAND TREATMENT					
BASIN ID	EXCESS PRECIPITATION TREATMENT A	EXCESS PRECIPITATION TREATMENT B	EXCESS PRECIPITATION TREATMENT C	EXCESS PRECIPITATION TREATMENT D	WEIGHTED EXCESS PRECIPITATION (IN)
SITE	0.67	0.86	1.09	2.58	2.30

FROM TABLE 6.2.13 IN DPM

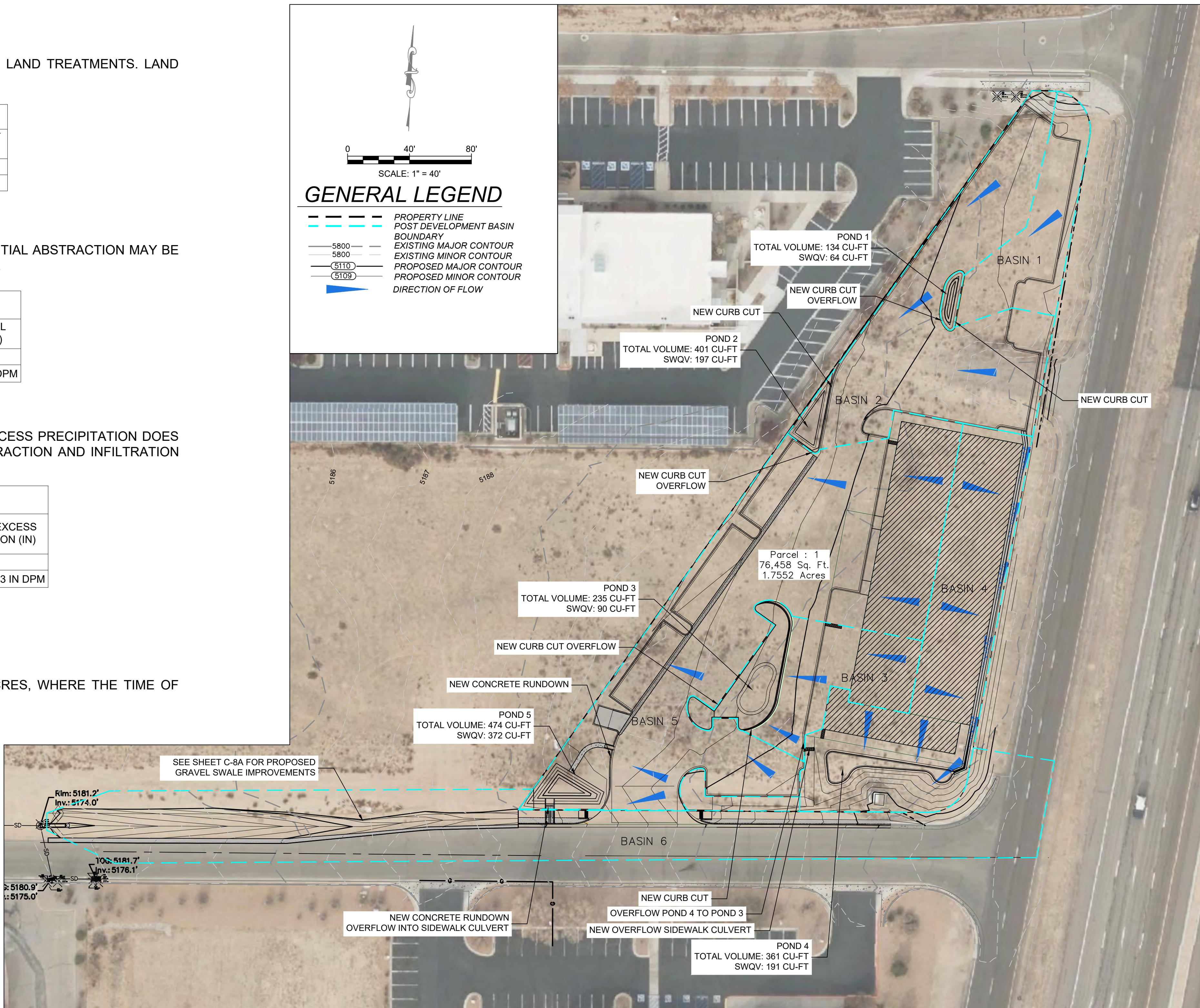
SITE EXISTING = 6,867 CU-FT
SITE PROPOSED = 11,921 CU-FT

PEAK DISCHARGE RATES ARE GIVEN IN TABLE 6.2.14 FOR SMALL WATERSHEDS, LESS THAN OR EQUAL TO 40 ACRES, WHERE THE TIME OF CONCENTRATION IS ASSUMED TO BE 12 MINUTES.

ONSITE EXISTING = 3.22 CFS
OFFSITE EXISTING = 1.05 CFS

ONSITE PROPOSED = 6.02 CFS
OFFSITE PROPOSED = 2.25 CFS
TOTAL TO INLET = 8.27 CFS

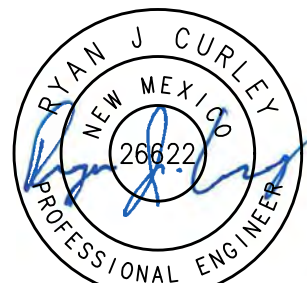
TO CALCULATE THE REQUIRED SWQV, THE IMPERVIOUS AREA IS MULTIPLIED BY 0.42" FOR NEW DEVELOPMENT OR 0.26" FOR REDEVELOPMENT SITES.
 $(0.60 \text{ AC} * 43,560 \text{ FT} / \text{AC}) * (0.42 \text{ IN} * 1 \text{ FT} / 12 \text{ IN}) = 914 \text{ CU-FT}$



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VENICE VOLLEYBALL COURTS
ALBUQUERQUE, NEW MEXICO
PROPOSED DRAINAGE PLAN

CLIENT: VERDE MANAGEMENT



2-5-24

THIS DRAWING IS INCOMPLETE
AND NOT TO BE USED FOR
CONSTRUCTION UNLESS IT IS
STAMPED, SIGNED AND DATED

Designed SMA	Drawn CLW	Checked RJS
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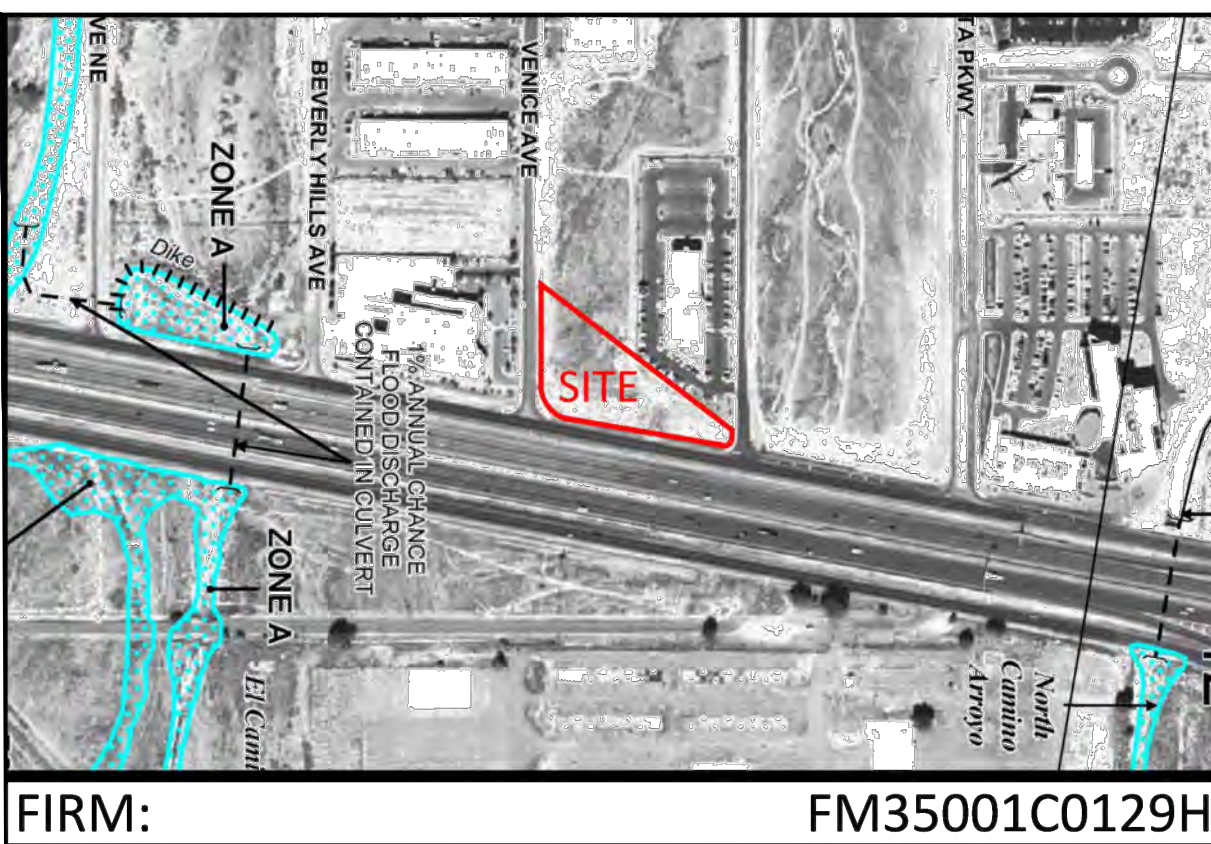
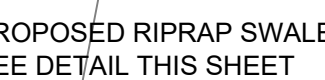
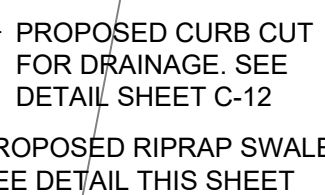
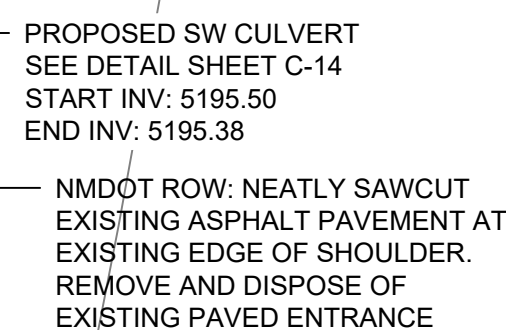
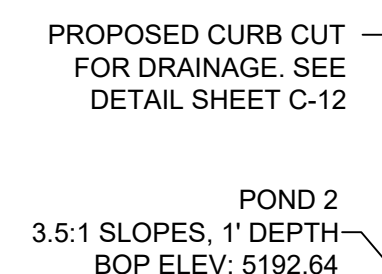
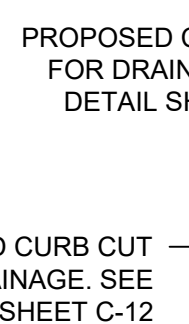
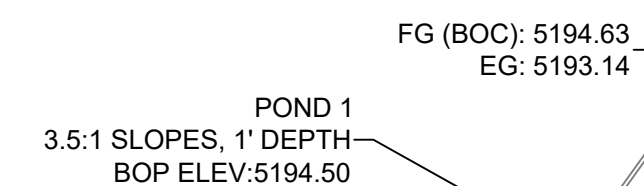
Date: February 2024

Scale: Horiz: N/A
Vert: N/A

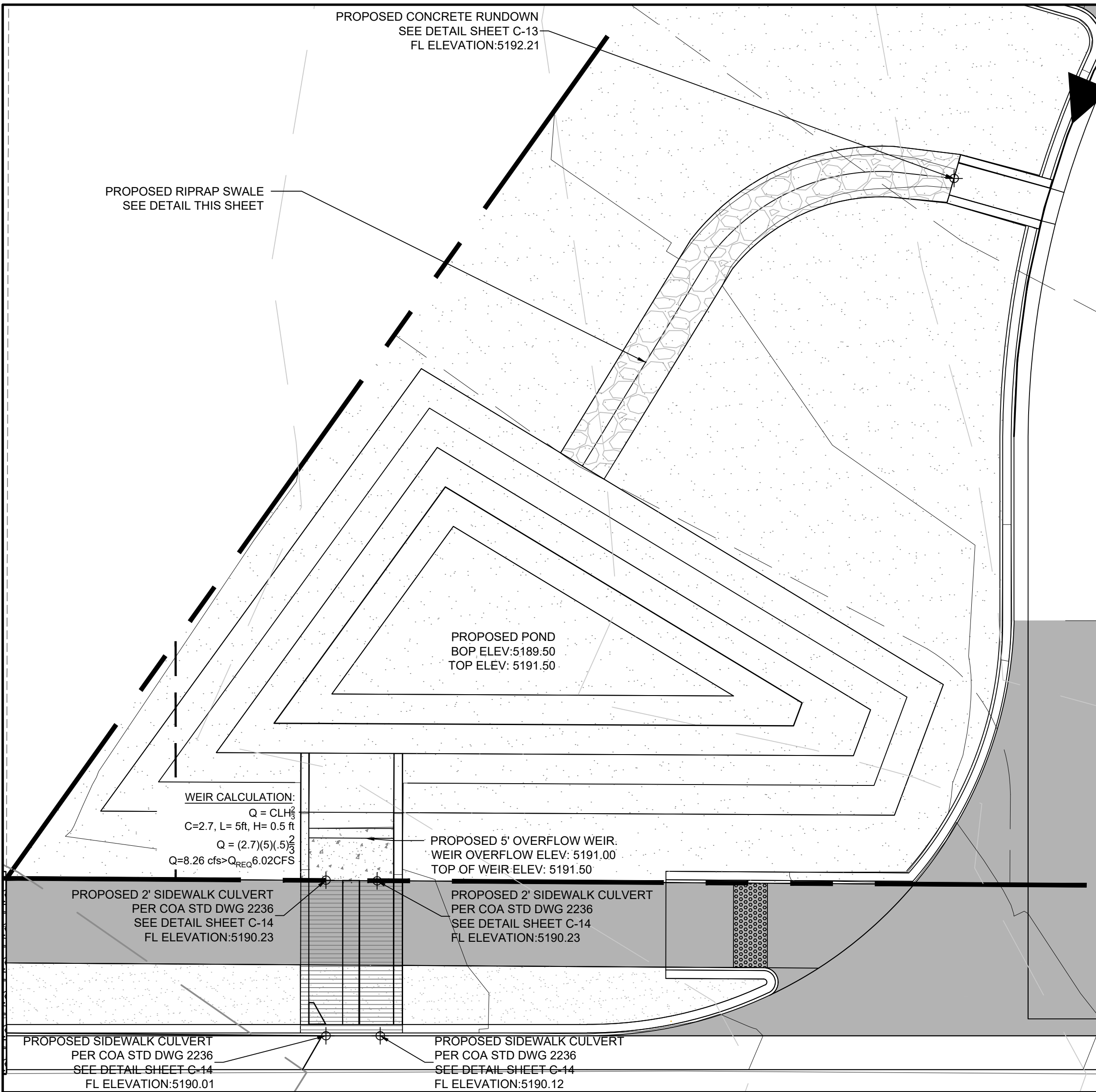
Project No: 9432605

Sheet: C 7

C-7



LEGAL DESCRIPTION: TRACT A-1, BLOCK 3, NORTH ALBUQUERQUE ACRES, TRACT A, UNIT B
BENCHMARK - NAVD 88: ACS MONUMENT "CC_EG_11_12_11N_3E" HAVING AN ELEVATION OF 5135.555
 LOCATED NW OF SITE (NOT SHOWN ON PLAN)



A ENLARGED PLAN

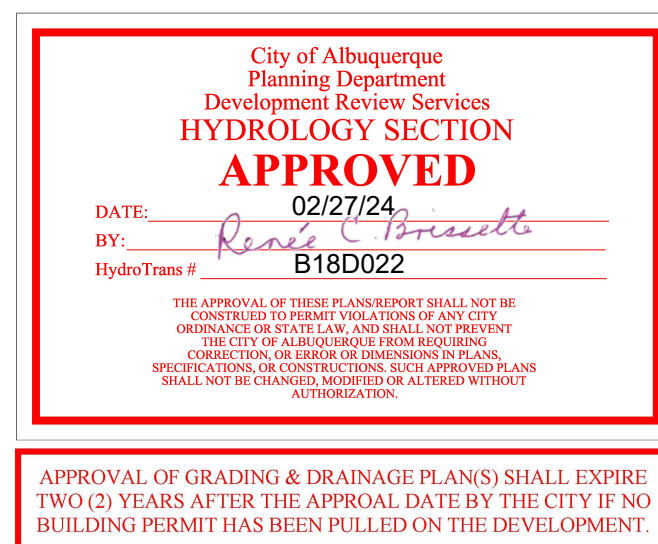
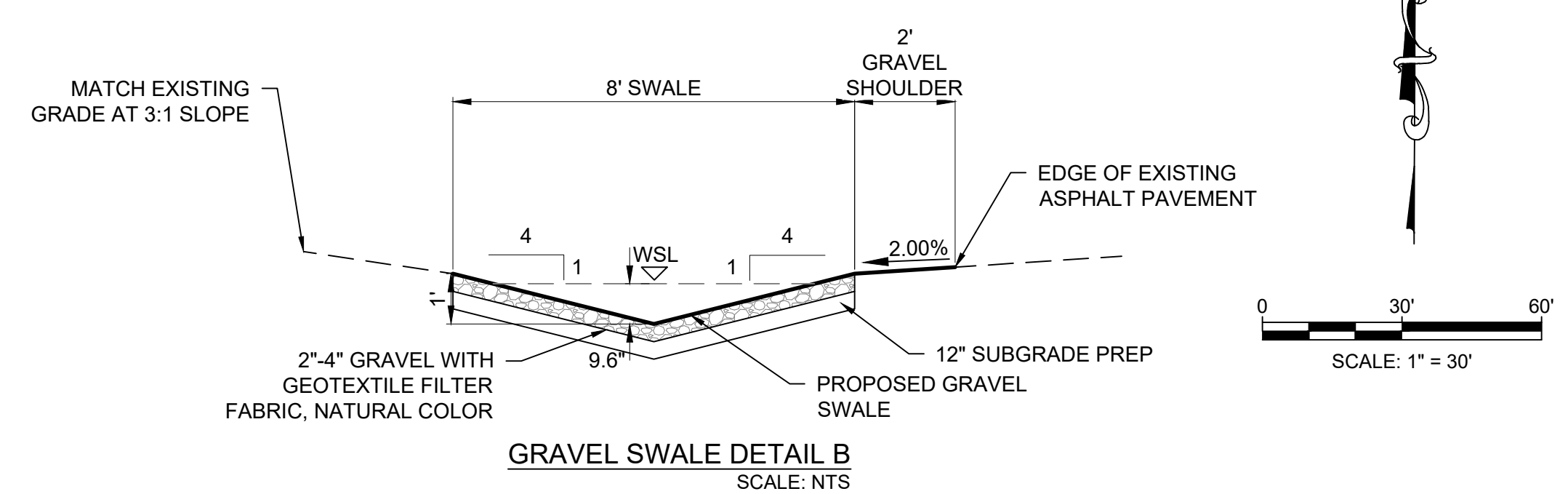
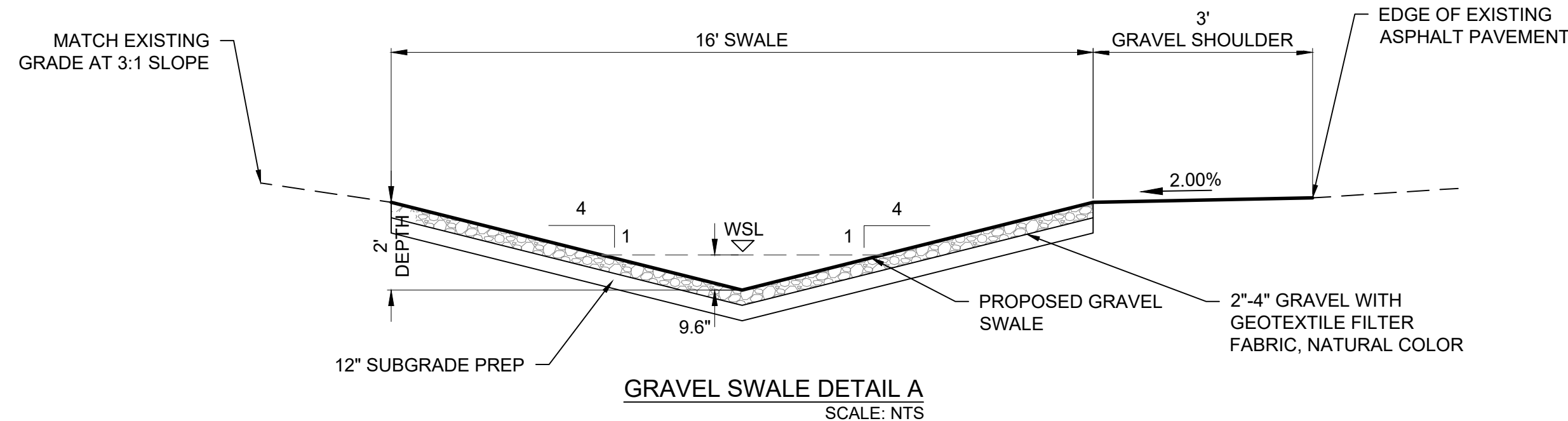
Scale: 1"=5'

- NOTES:**
1. ALL PONDS ARE FLATTER THAN 3:1. POND SLOPE STABILIZATION TO FOLLOW SECTION 1013 FOR DRAINAGE PONDS FOR NON-RESIDENTIAL DEVELOPMENT.
 2. NEW GRADING AND ENTRANCE REMOVAL WITHIN NMDOT ROW TO BE COMPLETED UNDER NMDOT PERMITTING. THE EXISTING DRAINAGE PATTERN OF ACCEPTING NMDOT ROW RUNOFF WILL BE MAINTAINED IN PROPOSED CONDITION



To Request a Line Locate Dial 811

New Mexico state law requires everyone involved in any excavation to provide at least two working days' notice to owners of underground facilities when a dig is planned. All facility owners are then required to mark the locations of any underground lines or take other appropriate measures to protect them.



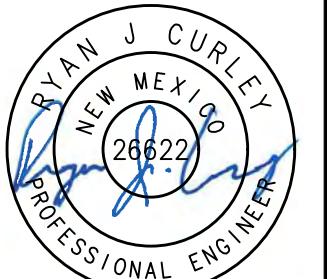
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VENICE VOLLEYBALL COURTS
ALBUQUERQUE, NEW MEXICO
PROPOSED GRAVEL SWALE IMPROVEMENTS
(FOR INFORMATION ONLY)



2-5-24

THIS DRAWING IS INCOMPLETE
AND NOT TO BE USED FOR
CONSTRUCTION UNLESS IT IS
STAMPED, SIGNED AND DATED

Designed _____ Drawn _____ Checked _____

Date: February 2024

Scale: Horiz: N/A
Vert: N/A

Project No: 9432605

Sheet: C-8A

C-0A